



CERTIFICATE

This is to certify that the project report entitled

DATA DEDUPLICATION ENGINE FOR A CLOUD-BASED BACKUP SYSTEM

SUBMITTED BY

ISHANI ATRE-C22019221311

SWATI SANJEEV BORSE- C22019221320

SHRUTI DATAR- C22019221330

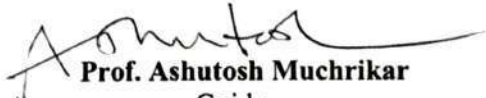
RADHIKA WADEKAR-C22019221470

are bonafide students of this institute and the work has been carried out by them under the supervision of **Prof A.N.Muchrikar & Dr. Shilpa Deshpande** and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Technology in Computer Engineering**.




Dr. Shilpa Deshpande
Guide

Department of Computer Engineering




Prof. Ashutosh Muchrikar
Guide

Department of Computer Engineering



Dr. Supriya Kelkar
Head

Department of Computer Engineering



Dr. M.B. Khambete
Principal

Cummins College of Engineering for Women, Pune

Place : Pune
Date: 29/05/2023



CERTIFICATE

This is to certify that the project report entitled
“FACE DETECTION AND RECOGNITION SYSTEM”


Submitted by

MADHURA MHASE	Exam No : C22019221412
SEJAL PAGARE	Exam No : C22019111221
AMRUTA KOTGIRE	Exam No : C22019221371
SHIVANI BHANGADE	Exam No : C22019221312

are bonafide student of this institute and the work has been carried out by them under the supervision of **Ms. Vaishali Salgar and Ms. Anuja Kulkarni** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering.**


Ms. Vaishali Salgar
Guide

Dept. of Computer Engg.

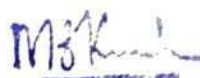

MEGHNA VAIDYA
External Examiner

Ms. Anuja Kulkarni
Guide

Dept. of Computer Engg.


Dr. Supriya Kelkar
Head,

Department of Computer Engineering


Dr. M. B. Khambete
Principal,

Cummins College of Engg. for Women Pune - 52

Place : Pune

Date :



CERTIFICATE

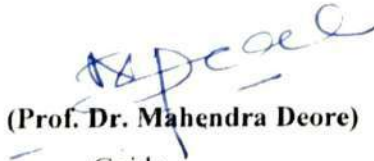
This is to certify that the project report entitles

“MODI SCRIPT CHARACTER RECOGNITION AND WORD SEGMENTATION”


Submitted by

RUTUJA WASU C22019881950 (ROLL NO.4950)
SEJAL LOYA C22019881953 (ROLL NO.4953)
SHRAVANI YANNA C22019881965 (ROLL NO.4965)

are bonafide students of this institute and the work has been carried out by them under the supervision of **Prof.Dr. Mahendra Deore** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune University.), for the award of the degree of **Bachelor of Technology** (Computer Engineering).


(Prof. Dr. Mahendra Deore)
Guide

Department of Computer Engineering


(Dr. S. M. Kelkar)
Head,

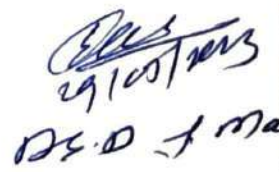
Department of Computer Engineering


(Dr. M.B. Khambete)
Director,

Cummins College of Engineering for Women Pune

Place: Pune

Date: 29 May 2023


29/05/2023
D.S.D. f ma



CERTIFICATE

This is to certify that the project report entitled


**"IMPLEMENTATION OF TEXT ANALYTICS TECHNIQUES TO ENRICH
DATA AND GET INSIGHTS"**


Submitted by


ADITI KAJALE	C22019221362	(4358)
ANANYA JOSHI	C22019881926	(4926)
JANHAVI GADRE	C22019881919	(4919)
SAMRUDDHI DEODE	C22019221331	(4328)

is a bonafide student at this institute and the work has been carried out by her under the supervision of **Prof. Dr. Shilpa Deshpande** and it is approved for the partial fulfilment of the requirement of Cummins college of engineering for women, Karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune university),

for the award of the degree of **Bachelor of Technology (Computer Engineering)**


(Prof. Dr. Shilpa Deshpande)
Guide,
Department of Computer Engineering


(Dr. Supriya Kelkar)
Head,
Department of Computer Engineering


(Dr. M. B. Khambete)
Director,
Cummins College of Engineering for Women

Place: Pune

Date: 27/05/2023



CERTIFICATE

This is to certify that the project report entitles
LEARNAROUND: A MOBILE APP FOR NEARBY LEARNING

STUDENT NAME	CNUM	ROLL NO.
PRACHI NARLAWAR	C22019221418	4418
SRUSHTI SULGUDLE	C22019221459	4458
MUGDHA TAGARE	C22019221460	4459
MAYURI TAMBE	C22019221461	4460

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Dr. Sheetal Barekar** it is approved for the partial fulfillment of the requirement of

Cummins College of Engineering for Women, Karvenagar, Pune
(an autonomous institute affiliated with Savitribai Pune University.),

for the award of the degree of **Bachelor of Technology** (Computer Engineering).


Prof. Dr. Sheetal Barekar


Guide

Department of Computer Engineering


Dr. Supriya Kelkar

Head,

Department of Computer Engineering


Dr. M. B. Khambete

Director,

Cummins College of Engineering for Women Pune- 52.

Place: Pune

Date: 27/05/2023

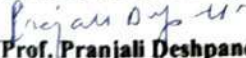
CERTIFICATE

This is to certify that the project report entitles


अन्वयार्थ (Anvayartha) Paraphrasing Tool for Low Resource Language

STUDENT NAME	Submitted by CNUM	ROLL NO
Pranita Barbade	C22019881908	4908
Akshada Malpure	C22019881934	4934
Anushka Pawar	C22019881945	4945
Reena Prasad	C22019881946	4946

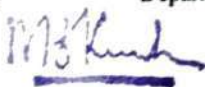
is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Pranjali Deshpande** and it is approved for the partial fulfillment of the requirement of Cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university.), for the award of the degree of **Bachelor of Technology (Computer Engineering)**.


(Prof. Pranjali Deshpande)
Guide

Department of Computer Engineering


(Dr. Supriya Kelkar)
Head,

Department of Computer Engineering


(Dr. M. B. Khambete)
Principal,

Cummins College of Engineering for Women Pune - 52

Place : Pune


29/05/2023
Dr. D. T. Maa



CERTIFICATE

This is to certify that the project report entitled

“SOCIOFIX – It starts with us”

Submitted by

STUDENT NAME	CNUM	(ROLL NO.)
YUTIKA PATEL	C22019221422	(4422)
SHUBHANGI SHARMA	C22019221452	(4451)
SHUBHANI MATHUR	C22019221453	(4452)
RUTUJA UDHANE	C22019221465	(4464)

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. A. B. C and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karve Nagar, Pune (an autonomous institute affiliated to Savitribai Phule pune university.), for the award of the degree of Bachelor of Technology (Computer Engineering).

(Dr. Sheetal Barekar)

GUIDE

Department of computer Engineering

(Dr. S. M. Kelkar)

Head,

Department of computer Engineering

(Dr. M. B. Khambete)

Director,

Department of computer Engineering

Place: Pune

Date:



CERTIFICATE

This is to certify that the project report entitled

“PRIVACY PRESERVING THEFT DETECTION IN SMART GRIDS USING IBM FHE TOOLKIT”

Submitted by

STUDENT NAME	Exam No:
GARGI JOSHI	C22020222304
SEJAL KSHIRSAGAR	C22019221374
KETAKI KOTHALE	C22019221372
SHREYA ABHYANKAR	C22019221303

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Hitendra Khairnar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.

(Prof. Hitendra Khairnar)
Guide
Department of Computer Engineering

(Dr. Supriya Kelkar)
Head,
Department of Computer Engineering

(Dr. M. B. Khambete)
Principal,

Cummins College of Engineering for Women Pune – 52

Place : Pune

Date : 02/05/2023



CERTIFICATE

This is to certify that Project Report entitles

**“INTRODUCING DIGITAL TWIN TO A
PROCESS-BASED DIGITAL TWIN PRODUCT”**

Submitted by

ANANDAMAYEE MODAK	C22019221413
PRANJAL MORE	C22019221414
SHARVARI PHADKE	C22019221430
SAI ATHALE	C22019221310

Are bonafide students of this institute and the work has been carried out by them under the supervision of **Prof. Mr. Ashutosh Muchrikar** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune

(An autonomous institute affiliated to Savitribai Phule Pune University),

for the award of the degree of **Bachelor of Technology (Computer Engineering)**.

Prof. Mr. Ashutosh Muchrikar

Guide

Department of Computer Engineering

Dr. S.M. Kelkar

HOD,

Department of Computer Engineering

Dr. Mrs. M.B. Khambete

Principal,

Cummins College of Engineering for Women Pune – 52

Place: Pune

Date: 27 /05/2023



02nd May 2023

PROJECT COMPLETION CERTIFICATE

This is to certify that Ms Srishti Sawkar Intern ID 40148815 student of “MKSSS's Cummins College of Engineering for Women ” has completed the project entitled “Planogram Compliance for Retail Stores” under the guidance of “Amit Thapak” from 11th Nov 2022 to 02nd May 2023 at Pune for the academic requirements of her graduation.

We have observed that your work was excellent and we appreciate your sincere learning. You have performed the project with energy and enthusiasm. This letter is issued based on your request.

We wish you all the very best in your career ahead!

Yours sincerely,
For **Wipro Limited**,

A handwritten signature in black ink, appearing to read "Aparna Shailen", written over a horizontal line.

Aparna Shailen
General Manager - Human Resources

Registered Office:

Wipro Limited T : +91 (80) 2844 0011
Doddakannelli F : +91 (80) 2844 0054
Sarjapur Road E : info@wipro.com
Bangalore - 560035 W : wipro.com
India C : L32102KA1945PLC020800

Internal to Wipro

40128815





02nd May 2023

PROJECT COMPLETION CERTIFICATE

This is to certify that Ms Samiksha Patil Intern ID 40148812 student of “MKSSS's Cummins College of Engineering for Women ” has completed the project entitled “Planogram Compliance for Retail Stores” under the guidance of “Amit Thapak” from 11th Nov 2022 to 02nd May 2023 at Pune for the academic requirements of her graduation.

We have observed that your work was excellent and we appreciate your sincere learning. You have performed the project with energy and enthusiasm.

We wish you all the very best in your career ahead!

Yours sincerely,
For **Wipro Limited**,

A handwritten signature in black ink, appearing to read "Aparna Shailen", written over a horizontal line.

Aparna Shailen
General Manager - Human Resources

Registered Office:

Wipro Limited T : +91 (80) 2844 0011
Doddakannelli F : +91 (80) 2844 0054
Sarjapur Road E : info@wipro.com
Bangalore - 560035 W : wipro.com
India C : L32102KA1945PLC020800

Internal to Wipro

40128812





02nd May 2023

PROJECT COMPLETION CERTIFICATE

This is to certify that Ms Nupur Shah Intern ID 40148809 student of “MKSSS's Cummins College of Engineering for Women ” has completed the project entitled “Planogram Compliance for Retail Stores” under the guidance of “Amit Thapak” from 11th Nov 2022 to 02nd May 2023 at Pune for the academic requirements of her graduation.

We have observed that your work was excellent and we appreciate your sincere learning. You have performed the project with energy and enthusiasm. This letter is issued based on your request.

We wish you all the very best in your career ahead!

Yours sincerely,
For **Wipro Limited**,

A handwritten signature in black ink, appearing to read "Aparna Shailen", written over a horizontal line.

Aparna Shailen
General Manager - Human Resources

Registered Office:

Wipro Limited T : +91 (80) 2844 0011
Doddakannelli F : +91 (80) 2844 0054
Sarjapur Road E : info@wipro.com
Bangalore - 560035 W : wipro.com
India C : L32102KA1945PLC020800

Internal to Wipro

40128815





02nd May 2023

PROJECT COMPLETION CERTIFICATE

This is to certify that Ms. Ketaki Sane Intern ID 40148814 student of “MKSSS's Cummins College of Engineering for Women ” has completed the project entitled “Planogram Compliance for Retail Stores” under the guidance of “Amit Thapak” from 11th Nov 2022 to 02nd May 2023 at Pune for the academic requirements of her graduation.

We have observed that your work was excellent and we appreciate your sincere learning. You have performed the project with energy and enthusiasm. This letter is issued based on your request.

We wish you all the very best in your career ahead!

Yours sincerely,
For **Wipro Limited**,

A handwritten signature in black ink, appearing to read "Aparna Shailen", written over a horizontal line.

Aparna Shailen
General Manager - Human Resources

Registered Office:

Wipro Limited T : +91 (80) 2844 0011
Doddakannelli F : +91 (80) 2844 0054
Sarjapur Road E : info@wipro.com
Bangalore - 560035 W : wipro.com
India C : L32102KA1945PLC020800

Internal to Wipro

40148814





CERTIFICATE

This is to certify that the project report entitles

“ CHAT APPLICATION WITH SPAM DETECTION”

Submitted By

PRAJAKTA DEOKULE	C22019221332	4329
MAITREYEE JOSHI	C22019221355	4351
TANVI KATAKKAR	C22020222305	4376
LAVANNYA PATIL	C22020222306	4377

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Rakhi A. Dongaonkar** and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karvenagar, pune

(An autonomous institute affiliated to Savitribai Phule Pune University.).

for the award of the degree of **Bachelor of Technology** (Computer Engineering).

(Prof. Rakhi Dongaonkar)

(Dr. S. M. Kelkar)

Guide,

Department of Computer Engineering

Head,

Department of Computer Engineering

(Dr. M.B. Khambete)

Director,

Cummins College of Engineering for Women

Place : Pune

Date : 28.5.23



CERTIFICATE

This is to certify that the project report entitles

" M+M (MEDICINES PLUS MORE) E-COMMERCE PLATFORM FOR PHARMACIES"

Submitted by

STUDENT NAME - VAISHNAVI BHAVSAR CNUM - C22019221315 (4312)
NISHA DESHMUKH C22019221334 (4331)
YAMINI DONGAONKAR C22019221338 (4335)
SAAVI JOSHI C22019221357 (4353)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Prakash Date** and it is approved for the partial fulfillment of the requirement college of engineering for women, karvenagar, pune(an autonomous institute affiliated to savitribai phule pune university).

for the award of the degree of **Bachelor of Technology** (Computer Engineering)

External Examiner

Prof. Prakash Date
(Prof. Prakash Date)

Guide
Department of Computer Engineering

Dr. S. M. Kelkar
(Dr. S. M. Kelkar)

Head,
Department of Computer Engineering

Dr. M. B. Khambete
(Dr. M. B. Khambete)

Director,

cummins college of engineering for women

Place Pune

Date : 27-05-2023



CERTIFICATE

This is to certify that the project report entitled

Differential Privacy

Submitted by

Sanika Bharambe
Jasmine Joshi
Mrunmayee Waykar
Sanjyot Amritkar

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. S.P. Mengale and it is approved for the partial fulfilment of the requirement of

Cummins College of Engineering for Women, Karvenagar, Pune,
(An autonomous institute affiliated to Savitribai Phule Pune University.),
for the award of the degree of **Bachelor of Technology** (Computer Engineering)

(Prof. Varsha Pimprale)

Guide

Department of Computer Engineering

(External)

(Dr. M. B. Khambete)

Director,

CCOEW Pune – 52

(Dr. Supriya Kelkar)

Head,

Department of Computer Engineering

Place: Pune

Date: 27/05/2023



CERTIFICATE

This is to certify that the project report entitles
“VARIABLE DBSCAN WITH INCORPORATION OF GRID
BASED CLUSTERING”

Submitted by,

SAKSHI NALAWADE (C22019881939)
SANNIDHI GOKHALE (C22019881923)
SAKSHI INGALE (C22019881924)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Sunita Jahirabadkar** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (An autonomous institute affiliated to Savitribai Phule Pune University), for the award of the degree of Bachelor of Technology (Computer Engineering).

Dr. Sunita Jahirabadkar
Guide,

Department of Computer Engineering

Dr. S. M. Kelkar
Head,

Department of Computer Engineering

Dr. M.B. Khambete

Director,

MKSSS's Cummins College of Engineering for Women, Pune

Place: Pune

Date:



CERTIFICATE

This is to certify that the project report entitled

VIDEO CONSULTATION FOR PATIENTS AND COLLABORATION PLATFORMS FOR HEALTHCARE PROFESSIONALS

submitted by

MANSI INDORE

CNUM : C22019221350 - 4347

SANIKA GHARE

CNUM : C22019221345 - 4342

SHRIYA RAINA

CNUM : C22019221302 - 4371

SNEHA JADHAV

CNUM : C22019221354 - 4350

are bonafide student of this institute and their work has been carried out by her under the supervision of Prof. Mahendra Deore and it is approved for the partial fulfillment of the requirement of

Cummins College of Engineering for Women, Karve Nagar, Pune

(an autonomous institute affiliated with Savitribai Phule Pune University.),

for the award of the degree of Bachelor of Technology (Computer Engineering).

Prof. Mahendra Deore

Department of Computer Engineering

Dr. S.M. Kelkar

Department of Computer Engineering

Dr. M.B. Khambete

Director,

Cummins College of Engineering for Women

Place: Pune

Date:



CERTIFICATE

This is to certify that the project report entitled
"ADDING NEW OPTIMIZATION PASS OF REGISTER ALLOCATION"


Submitted by

GAURI GAJANAN AMIN	C22019881904 (4904)
GOURAVI RAJESH DORKHANDE	C22019881917 (4917)
ANKITA ANIL MANE	C22019881935 (4935)
MUKTA DHANANJAY OGALE	C22019881942 (4942)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Chhaya Gosavi** and **Ms. Ashwini Tande** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.


Dr. Chhaya Gosavi
Guide

Department of Computer Engineering


Dr. Supriya Kelkar
Head

Department of Computer Engineering


Dr. M. B. Khambete

Director, Cummins College of Engineering for Women, Pune – 52

Place: Pune

Date: 29-05-2023



CERTIFICATE

This is to certify that the project report entitles

“SECURE-FS IN LINUX KERNEL”

Submitted by


GARGI KULKARNI C22019221402 (4402)

PARNAVI KULKARNI C22019221404 (4404)

MRUNMAYEE MANMADKAR C22019221411 (4411)

SANYUKTA MULEY C22019221415 (4415)

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Aparna Hazare and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karvenagar, pune(an autonomous institute affiliated to savitribai phule pune university.),for the award of the degree of **Bachelor of Technology** (Computer Engineering)


Prof. Aparna Hazare

Guide

Department of Computer Engineering


Dr. S. M. Kelkar

Head,

Department of Computer Engineering


(Dr. M.B. Khambete)

Director,

cummins college of engineering for women

Place : Pune

Date :



CERTIFICATE

This is to certify that the project report entitled


“SWARAKSHA - WOMEN'S SAFETY APP WITH WEARABLE DEVICE ”


Submitted by

SUBMITTED BY : BHAKTI KULKARNI(C22019221401)
BHAKTI PAGAR(C22019221420)
RIYA PATHE(C22019221423)
YUGA THARKUDE(C22019221461)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Sushila Shelke** and it is approved for the partial fulfillment of the requirement college of engineering for women, Karve Nagar, pune(an autonomous institute affiliated to Savitribai Phule pune university.),

for the award of the degree of **Bachelor of Technology**
(Computer Engineering)


(Dr. Sushila Shelke)
Guide
Department of Computer
Engineering


(Dr. S. M Kelkar)
Head
Department of Computer
Engineering


(Dr. M.B. Khambete)
Director,

Cummins College of Engineering for Women

Place : Pune

Date : 27/05/2023



CERTIFICATE


This is to certify that the project report entitles


"CUSTOMER 360 NBA/NBO FOR WEALTH MANAGEMENT"


Submitted by

STUDENT NAME	CNUM	ROLL NO.
SEJAL SANJAY MANGAVE	C22019221410	4410
SAI AKSHITHA BODDUPALLI	C22019221440	4440
NAVYA VIKAS SHUKLA	C22019221454	4453
GOURI LALIT SOMANI	C22019221456	4455


is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Shilpa P and it is approved for the partial fulfilment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune University.), for the award of the degree of Bachelor of Technology. (Computer Engineering).


(Prof. Shilpa Pant)
Guide
Department of Computer Engineering


(Dr. S. M. Kelkar)
Head
Department of Computer Engineering


(Dr. M.B. Khambete)
Director,

Cummins College of Engineering for Women


Dr. D. J. Mane

Place: Pune

Date: 22 May 2023



CERTIFICATE

This is to certify that the project report entitles


“FUSION OF THERMAL AND OPTICAL FEATURES IN CLASSIFICATION OF SPACE OBJECTS”


Submitted by

**SEJAL CHAUDHARI
GRISHMA DESHMUKH
SAI GOKHALE
RAAHI KADU**

**CNUM :C22019221325 ROLL NO. 4322
CNUM :C22019221333 ROLL NO. 4330
CNUM :C22019221348 ROLL NO. 4345
CNUM :C22019221361 ROLL NO. 4357**

are the bonafide students of this institute and the work has been carried out by her under the supervision of **Prof. Dr. Sunita Jahirabadkar** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune University), for the award of the degree of **Bachelor of Technology** (Computer Engineering).


Dr. Sunita Jahirabadkar
Guide,
Department of Computer Engineering


Dr. S. M. Kelkar
Head,
Department of Computer Engineering


Dr. M.B. Khambete
Director,
Cummins College of Engineering for
Women

Place : Pune

Date : 27/05/23



CERTIFICATE

This is to certify that the project report entitles
"COMPARATIVE ANALYSIS OF DIFFERENT PREDICTIVE MODELS FOR
FOULING FACTOR PREDICTION IN HEAT EXCHANGER"

Submitted by

STUDENT NAME	Exam No
AKHILA NORI	C22019221306
ANKITA CHANDAVALE	C22019221322
GAYATRI CHAUDHARI	C22019221323
PRIYANKA DAHIKAMBLE	C22019221329

Is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Supriya Kelkar** and it is approved for the partial fulfilment of the requirement of Cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university.),

For the award of the degree of **Bachelor of Technology (Computer Engineering)**.

(Dr. S. M. Kelkar)
Guide


(Dr. S. M. Kelkar)
Head,

Department of Computer Engineering

Department of Computer Engineering


(Dr. M. B. Khambete)

Director,

Cummins College of engineering for women

Place: Pune

Date

Date: - 24-May-23

CERTIFICATE
TO WHOMSEVER IT MAY CONCERN.

This is to certify that Ms. Janhvi Bhangale who is a student at Cummins College of Engineering has attended an Internship Program TEIM from 1st Sept-22 to 30th May-23.

During this internship, she was involved in the project titled "Image piracy detection over platforms like Instagram and Facebook."

During the internship she demonstrated good skills with self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time. We wish Ms. Janhvi Bhangale all the best in her future career.

For TEIM, Pune



Vishal Goswami

Director

Date: - 24-May-23

CERTIFICATE
TO WHOMSEVER IT MAY CONCERN.

This is to certify that Ms. **Anushka Shrivastava** who is a student at Cummins College of Engineering has attended an Internship Program TEIM from 1st Sept-22 to 30th May-23.

During this internship, she was involved in the project titled **"Image piracy detection over platforms like Instagram and Facebook."**

During the internship she demonstrated good skills with self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project.

successfully on time. We wish Anushka Shrivastava all the best in her future career.

For TEIM, Pune



Vishal Goswami

Director

Date: - 24-May-23

CERTIFICATE
TO WHOMSEVER IT MAY CONCERN.

This is to certify that Ms. Anshika Dubey who is a student at Cummins College of Engineering has attended an Internship Program TEIM from 1st Sept-22 to 30th May-23.

During this internship, she was involved in the project titled "Image piracy detection over platforms like Instagram and Facebook."

During the internship she demonstrated good skills with self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project.

successfully on time. We wish Ms. Anshika Dubey all the best in her future career.

For TEIM, Pune



Vishal Goswami

Director

Date: - 24-May-23

CERTIFICATE
TO WHOMSEVER IT MAY CONCERN.

This is to certify that Ms. Aastha Agrawal who is a student at Cummins College of Engineering has attended an Internship Program TEIM from 1st Sept-22 to 30th May-23.

During this internship, she was involved in the project titled "Image piracy detection over platforms like Instagram and Facebook."

During the internship she demonstrated good skills with self-motivated attitude to learn new things. Her performance exceeded expectations and was able to complete the project successfully on time. We wish Ms. Aastha Agrawal all the best in her future career.

For TEIM, Pune



Vishal Goswami

Director

CERTIFICATE


This is to certify that the project report entitles

Developing a personalized memory application.


Submitted by

Sharvari Sonkusare
Swarali Totade
Apurva Sonawane

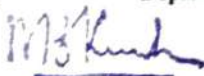
is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Pranjali Deshpande** and it is approved for the partial fulfillment of the requirement of Cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university.), for the award of the degree of **Bachelor of Technology (Computer Engineering)**.


(Prof. Pranjali Deshpande)
Guide

Department of Computer Engineering


(Dr. Supriya Kelkar)
Head,

Department of Computer Engineering



(Dr. M. B. Khambete)
Principal,

Cummins College of Engineering for Women Pune - 52


29/05/2023
Dr. D. T. Mee

Place : Pune



CERTIFICATE

This is to certify that the project report entitled

“PREDICTIVE AND PRESCRIPTIVE MAINTAINANCE OF WINDPOWER GENERATION SYSTEM”

Submitted by

STUDENT NAME : Purva Patil
Tejashree Patil
Shivani Yogi
Siddhi Zawar

CNUM: C22019221425(4425)
C22019221429(4429)
C22019221473(4470)
C22019221474(4471)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Simantinee Kulkarni** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Technology** (Computer Engineering).

(Prof. Simantinee Kulkarni)
Guide

Department of Computer Engineering

(Dr. Supriya Kelkar)
Head,

Department of Computer Engineering

(Dr. M. B. Khambete)
Principal,

Cummins College of Engineering for Women Pune – 52

Place : Pune

Date : 27/05/23

(External Guide)

Date: 02/01/2023

Ref. No.:DS2022/01

TO-WHOMSOEVER-IT-MAY-CONCERN

This is to inform you that Following Students are working with **Dnyano Solutions Private Limited** with our IT unit **Dnyano Global IT Solutions (DGITS)** on the sponsored project for a period of six months from 10th October 2022 to 11th April 2023.

Project Name Linkcode – LMS System Video Portal.

Role of Developer: Java full Stack – Trainee (Core Java, Advance Java J2EE, Spring Framework)

Team Details

- 1) Chinmayi Adsul
- 2) Roshani Bhojane
- 3) Akansha Dhage
- 4) Aditi D

Sponsored Project Company Details:

Company Name: LinkCode Technologies Pvt Ltd

Address: JM Road Pune

Contact Person: Mr. Rahul Ahire

Designation: Director

Contact Number: 9604 430 489

Thanking you.



Mrs. Smita Jadhav
Business Head

 **dnyano****Dnyano Solutions Pvt. Ltd.**www.dnyano.in

#9373 615 614



CERTIFICATE

This is to certify that the project report entitled

**“DEVELOP A WEARABLE DEVICE TO MONITOR HEALTH PARAMETER
OF CYCLIST AND DEVELOP A MOBILE APPLICATION”**

Submitted by

HARSHADA CHAVAN	C22019221326	(4323)
SAMPADA JOSHI	C22019221358	(4354)
POORVA DARADE	C22019881914	(4914)
ISHA NIKAM	C22019881941	(4941)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Varsha Pimprale** and it is approved for the partial fulfilment of the requirement of

Cummins College of Engineering for Women, Karvenagar, Pune,
(An autonomous institute affiliated to Savitribai Phule Pune University.),
for the award of the degree of **Bachelor of Technology** (Computer Engineering)

(Prof. Varsha Pimprale)

Guide

Department of Computer Engineering

(External)

(Dr. M. B. Khambete)

Director,

CCOEW Pune – 52

(Dr. Supriya Kelkar)

Head,

Department of Computer Engineering

Place: Pune

Date: 27/05/2023

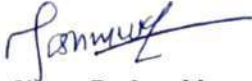
CERTIFICATE

This is to certify that the project report entitled
"ROAD POTHOLE & DRIVER DROWSINESS"

Submitted by

NEHA BHANDARI	C22020882902
PRATIKSHA BHISE	C22020882903
ASHWINI BIRADAR	C22020882904

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Mrs. Nutan Deshmukh** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.



Prof. Mrs. Nutan Deshmukh

Department of Computer Engineering
Engineering



External Examiner (Dr. Supriya Kelkar)

Department of Computer



(Dr. M. B. Khambete)

Principal,

Cummins College of Engineering for Women Pune - 52

Place : Pune

Date : 27/05/2023



CERTIFICATE

This is to certify that the project report entitled

“DISEASE PREDICTION USING IOT AND MACHINE LEARNING ”

Submitted by

Laddha Astha Anil	C22019221405	4405
Londhe Anisha Prakash	C22019221407	4407
Patil Neha Prakash	C22019221424	4424
Walvekar Rutuja Ravindra	C22019221472	4469

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Mrs . Meenal Kamlakar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Technology** (Computer Engineering).

(Prof. Meenal Kamlakar)

Guide

Department of Computer Engineering

(Dr. Supriya Kelkar)

Head,

Department of Computer Engineering

(Dr. M. B. Khambete)

Director,

Cummins College of Engineering for Women.

Place : Pune

Date :



CERTIFICATE

This is to certify that the project report entitled

**“CYBERBULLYING DETECTION IN
NETWORKING PLATFORMS FOR TEENAGERS AND
YOUNG ADULTS”**

Submitted by

Anandita Rathore C22019221307(4304)

Sakshi Khanapure C22019221367(4362)

Arundhati Korlahalli C22019221370(4365)

Brishti Basu C22020222302(4373)

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Shilpa Deshpande and it is approved for the partial fulfillment of the requirement of Cummins college of engineering for women, karvenagar, pune

(an autonomous institute affiliated to savitribai phule pune university.),

for the award of the degree of **Bachelor of Technology** (Computer Engineering).


Dr. Shilpa Deshpande

Guide

Department of Computer Engineering
Engineering


Dr. Supriya Kelkar

Head,

Department of Computer


Dr. M. B. Khambete

Principal,

Cummins College of Engineering for Women Pune – 52

Place: Pune

Date: ~~21 January~~ ^{May} 2023



CERTIFICATE

This is to certify that the project report entitled
SALES RECOMMENDATION FOR EFFECTIVE CUSTOMER ENGAGEMENT

Submitted by

RUCHITA BHANGIRE	C22019221321
SNEHA CHALAKE	C22019221313
RUCHA CHAVAN	C22019221327
SHRUTI DESHMUKH	C22019221335

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Nilofer Kittad** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune

(an autonomous institute affiliated to Savitribai Phule Pune University)
for the award of the degree of **Bachelor of Computer Engineering.** (Computer Engineering)

Prof. Nilofer Kittad

Guide

Department of Computer Engineering

Dr. Supriya Kelkar

Head,

Department of Computer Engineering

(Dr. M. B. Khambete)

Principal,

Cummins College of Engineering for Women Pune – 52

Place : Pune

Date:

Dr. D. T. Mane



CERTIFICATE

This is to certify that the project report entitled

“PREDICTIVE MAINTENANCE OF MACHINES”

Submitted by

PRIYANKA SARAF	CNUM: C22019221442	ROLL NO: 4442
SHRUTI SHARMA	CNUM: C22019221445	ROLL NO: 4445
NEHA SHIRWADKAR	CNUM: C22019221448	ROLL NO: 4447

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. A. N. Muchrikar** and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karvenagar, Pune(an autonomous institute affiliated to Savitribai Phule Pune university), for the award of the degree of **Bachelor of Technology (Computer Engineering)**.

(Prof. A. N. Muchrikar)

Guide,

Department of Computer Engineering

(Dr. Supriya Kelkar)

Head,

Department of Computer Engineering

(Dr. M. B. Khambete)

Principal,

Cummins College of Engineering for Women

Place : Pune

Date : 29/5/23



CERTIFICATE

This is to certify that the project report entitled
"IDITRI-AN E-COMMERCE WEB APPLICATION"

Submitted by

NIKITA SHETE ROLL NO:4956

ANAGHA SHINDE ROLL NO:4957

SRUSHTI THAKRE ROLL NO:4961

SAKSHI WALWADKAR ROLL NO:4963

are the bonafide students of this institute and the work has been carried out by them under the supervision of **Prof. Sakshi Mandke** and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.


Prof. Sakshi Mandke


Dr. Supriya Kelkar

Project Guide
Engineering


External Examiner

Head of Department Computer



Dr. M. B. Khambete
Principal

Cummins College of Engineering for Women, Pune – 52

Place: Pune

Date:



CERTIFICATE

This is to certify that the project report entitled

“ROBOTIC MONITORING AND MAINTENANCE”

Submitted by


STUDENT NAME: Mitali Ramugade
Payal Raut
Samruddhi Raut
Shivani Mohankumar

Exam No.: C22019221433
C22019221435
C22019221436
C22019221450


is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Dr. Chhaya Gosavi and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Computer Engineering.


Prof. Dr. Chhaya Gosavi
Guide

Department of Computer Engineering


Dr. Supriya Kelkar
Head of Department

Department of Computer Engineering


(Dr. M. B. Khambete)
Principal,

Cummins College of Engineering for Women Pune – 52

Place: Pune
Date:

“CCEW, Department of Computer Engineering 2022-23”



CERTIFICATE

This is to certify that the project report entitled

GENERATING PHASES OF SCLP - AUTOMATIC CONSTRUCTION OF AN ASSEMBLY GENERATOR FROM SPECIFICATIONS

Submitted by

HARDIKI SONCHHATRA

CNUM: C22019221314 - 4311

KHUSHBU BORA

CNUM: C22019221319 - 4316


SUDHA CHINTAKE

CNUM: C22019221328 - 4325

SHRIHARSHA DHOBE

CNUM: C22019221336 - 4333

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Chhaya Gosavi** and **Prof. Sharayu Mirasdar** and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.


(Dr. Chhaya Gosavi)

Guide

Department of Computer Engineering


(Dr. Supriya Kelkar)

Head

Department of Computer Engineering


(Dr. M. B. Khambete)

Principal

Cummins College of Engineering for Women, Pune – 52

Place: Pune

Date:

CERTIFICATE

This is to certify that the project report entitles
"FASHIONENZA - VIRTUAL DRESSING ROOM"

Submitted by

STUDENT NAME	CNUM
SWIKRUTI MAIND	C22019881933
VINAYA PATIL	C22019881944
CHETANA NAGARE	C220198819338

is a bonafide student of this institute and the work has been carried out by her under the supervision of Dr Madhuri Tasgaonkar and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to savitribai phule pune university.), for the award of the degree of Bachelor of Technology (Computer Engineering).



(Dr. Madhuri Tasgaonkar)

Guide,

Department of Computer Engineering



(Dr. S. M. Kelkar)

Head,

Department of Computer Engineering



(Dr. M. B. Khambete)

Director,

Cummins College of engineering for women

Place : Pune

Date : 29/05/2023



CERTIFICATE

This is to certify that the project report entitled


“CREATE AN INTEGRATED DASHBOARD USING GOOGLE ANALYTICS AND CRM DATA FOR ENGINEERING ADMISSION DATA”

Submitted by

STUDENT NAME - SNEHAL BAVISKAR	CNUM : C22019881909 (4909)
YUKTA BUKKAWAR	C22019881912 (4912)
SHRIYA KAGE	C22019881928 (4928)
PALLAVI SATPUTE	C22019881952(4952)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Anjali Naik** and it is approved for the partial fulfillment of the requirement college of engineering for women, Karve Nagar, Pune(an autonomous institute affiliated to Savitribai Phule Pune University.),

for the award of the degree of **Bachelor of Technology** (Computer Engineering)


(Dr. Anjali Naik)
Guide

Department of Computer Engineering


(Dr. S. M. Kelkar)
Head,

Department of Computer Engineering


(Dr. M.B. Khambete)
Director,

Cummins college of engineering for Women

Place : Pune

Date : 27 May 2023

CCEW, Department of Computer Engineering 2022-23



CERTIFICATE

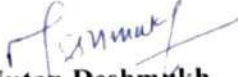
This is to certify that the project report entitled

IOT BASED AUTOMATION OF THE PREBUILT SOLAR DESALINATION SYSTEM

Submitted by

KETAKI KSHIRSAGAR	C22019221373
AKANKSHA KULKARNI	C22019221375
JUI KARKHELE	C22019221365
DIVYA GAJARE	C22019221342

are bonafide students of this institute and the work has been carried out by them under the supervision of **Prof. Nutan Deshmukh** and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**


Prof. Nutan Deshmukh

Guide

Dept. of Computer Engineering


Dr. Supriya Kelkar

Head,

Dept. of Computer Engineering


Dr. M. B. Khambete

Principal,

Cummins College of Engineering for Women, Pune -52

Place: Pune

Date: 27/5/23


External Examiner



CERTIFICATE


This is to certify that the project report entitled

WEBSITE DEVELOPMENT AND DEPLOYMENT FOR ACCESS POINT INDIA PVT-LTD


Submitted by

APARNA LULEKAR	C22019881932 (4932)
RITIKA SACHIN PANDE	C22019881943(4943)
SAKSHI RATHI	C22019881948(4948)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. S.P. Mengale** and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karve nagar, pune (an autonomous institute affiliated to Savitribai Phule pune university.), for the award of the degree of **Bachelor of Technology (Computer Engineering)**.


Prof. S.P. Mengale
(Guide)
Department of Computer Engineering


Dr. S.M. Kelkar
Head,
Department of Computer Engineering


(Dr. M.B. Khambete)
Director,
Cummins College of Engineering for Women

Place: Pune
Date: 26/05/2023




CERTIFICATE

This is to certify that the project report entitled
"SMART HEALTHCARE SYSTEM USING WEB3.0"

Submitted by

KOMAL SALUJA	C22019221369 :	4364
ADITI RAMDAS KAWALE	C22019221366 :	4361
VAISHNAV MANSING HOLKAR	C22019221349 :	4346

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Aparna Hajare and Prof. Sharayu Mirasdar** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to savitribai phule pune university), for the award of the degree of **Bachelor of Technology (Computer Engineering)**.


(Prof. Aparna Hajare)
Guide
Department of Computer
Engineering

(Prof. Sharayu Mirasdar)
Guide
Department of Computer
Engineering


(Dr. Supriya Kelkar)
Head,
Department of Computer
Engineering


(Dr. M. B. Khambete)
Principal,

Cummins College of Engineering for Women Pune – 52

Place : Pune
Date :



CERTIFICATE

This is to certify that the project report entitled

"ENHANCING LEARNING EXPERIENCE IN STEM EDUCATION USING AR "

Submitted by

STUDENT NAME: SHRUTI PRABHU

Exam No: C22019221431

SAKSHI SHIVNIKAR

C22019221451

SUKANYA SOLASE

C22019221455

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Madhuri Tasgaonkar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering.**


(Prof. Madhuri Tasgaonkar)

Guide

Department of Computer Engineering



(Dr. Supriya Kelkar)

Head,

Department of Computer Engineering



(Dr. M. B. Khambete)

Principal,

Cummins College of Engineering for Women Pune – 52

Place : Pune

Date : 27/05/23

CCEW, Department of Computer Engineering 2022-23



CERTIFICATE

This is to certify that the project report entitled
“INCOME AND EXPENSE TRACKER – MONEYWISE”


Submitted by


ISHA SHIVALKAR	CNUM : C22019221449 (4448)
NEHA AMBRE	CNUM : C22019881903 (4903)
RUTUJA PATIL	CNUM : C22019221426 (4426)
TEJAL KHEDEKAR	CNUM : C22019221368 (4363)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Rakhi Dongaonkar** and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karvenagar, pune

(an autonomous institute affiliated to savitribai phule pune university)
for the award of the degree of **Bachelor of Technology** (Computer Engineering).


(Prof. Rakhi Dongaonkar)
Guide
Department of Computer Engineering


(Dr. Supriya Kelkar)
Head,
Department of Computer Engineering


(Dr. M. B. Khambete)
Principal,
Cummins College of Engineering for Women Pune – 52

Place : Pune

Date :



CERTIFICATE

This is to certify that the project report entitles

“ AUTISTE: AN APPLICATION FOR AUTISM PREDICTION”

Submitted by

VAISHNAVI BORSE	C22020882905	4970
PIYUSHA DHAVALE	C22020882906	4971
RAMA GHODKE	C22020882907	4972

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Dr. Neeta Maitre** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune University), for the award of the degree of **Bachelor of Technology** (Computer Engineering).

(Dr. Neeta Maitre)

Guide

Department of Computer Engineering

(Dr. S. M. Kelkar)

Head,

Department of Computer Engineering

Dr. M.B. Khambete

Principal

Cummins College of Engineering for Women

Place: Pune

Date:27/05/2023

Name and Signature of

External Examiner



CERTIFICATE

This is to certify that the project report entitled
“MONITORING OPERATIONAL SERVICES FOR ECOMMERCE WEBSITE”

Submitted by

VAISHNAVI SHIRPURKAR	C NO: C22020222405 (ROLL NO. 4477)
SHRUTI BHONDEKAR	C NO: C22020222406 (ROLL NO. 4478)
SURABHI THAKUR	C NO: C22020222407 (ROLL NO. 4479)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Sushila Shelke** and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university), for the award of the degree of **Bachelor of Technology** (Computer Engineering).

888

(Dr. Sushila Shelke)
Guide,
Department of Computer Engineering


(Dr. Supriya Kelkar)
Head,
Department of Computer Engineering



(Dr. M. B. Khambete)
Principal,
Cummins College of Engineering for Women Pune – 52

Place: Pune
Date: 27/05/2023




CERTIFICATE

This is to certify that the project report entitled
“SENTIMENT ANALYSIS OF CUSTOMER REVIEWS”


Submitted by

MANSI LINGARKAR	C22019221406 (4406)
AVANTI NARHE	C22019221417 (4417)
VAISHALI NEWALE	C22019221419 (4419)
NAMRATA RANKHAMB	C22019221434 (4434)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Mrs. Sandhya Arora** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.


(Prof. Dr. Sandhya Arora)
Guide,
Department of Computer Engineering


(Dr. Supriya Kelkar)
Head,
Department of Computer Engineering


(Dr. M. B. Khambete)
Principal,
Cummins College of Engineering for Women Pune – 52

Place : Pune

Date :

CCEW, Department of Computer Engineering 2022-23



CERTIFICATE

This is to certify that the project report entitled

sign shift-an extension to hindi language

Submitted by

Anjali Nagwani
Juhi Rajesh Ganvir
Riddhi Nandkumar Kalate
Vaishnavi Sinha

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Neeta Maitre and it is approved for the partial fulfilment of the requirement of

Cummins College of Engineering for Women, Karvenagar, Pune,
(An autonomous institute affiliated to Savitribai Phule Pune University.),
for the award of the degree of **Bachelor of Technology** (Computer Engineering)

Dr. Neeta Maitre
Guide
Department of Computer Engineering

(Dr. M. B. Khambete)
Director,
CCOEW Pune – 52

(External)

(Dr. Supriya Kelkar)
Head,
Department of Computer Engineering

Place: Pune

Date: 27/05/2023



CERTIFICATE


This is to certify that the project report entitles
"PlantEasy : PLANT CARE AND SHOPPING APPLICATION"

Submitted by


STUDENT NAME	Exam No.
RASHMI GAJBHIYE	C22019881920
MANDIRA SAMJISKAR	C22019881951
RUTUJA SOMANI	C22019881959

Is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Aparna Hajare** and it is approved for the partial fulfilment of the requirement of Cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university.),

For the award of the degree of **Bachelor of Technology (Computer Engineering)**.


(Prof. Aparna Hajare)
Guide

Department of Computer Engineering


(Dr. S. M. Kelkar)
Head,

Department of Computer Engineering

(Dr. M.B. Khambete)
Director,
Cummins College of engineering for women

Place: Pune

Date - 27/05/23





CERTIFICATE

This is to certify that the project report entitled

ERP SYSTEM FOR CIVIL CONTRACTORS

Submitted by

SAMRUDHI BHANGE	C22020222301(4372)
SAYALI CHAUDHARI	C22020222303(4374)
DURGA PANDHARKAR	C22020222308(4379)

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. **Jyoti Bangare** and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university.), for the award of the degree of **Bachelor of Technology** (Computer Engineering).

Prof. Jyoti Bangare

Guide

Department of Computer Engineering

Dr. Supriya Kelkar

Head,

Department of Computer Engineering

Dr. M. B. Khambete

Director,

Cummins College of Engineering for Women Pune - 52

External

Place : Pune

Date: 27/05/2023




CERTIFICATE

This is to certify that the project report entitled
“ONLINE ASSESMENT SYSTEM”

Submitted by

SAKSHI GIRI	ROLL NO:4922
PRATI KSHA JAGTAP	ROLL NO:4925
VANSHIKA NEMANNIWAR	ROLL NO:4940
NEHA RATHOD	ROLL NO:4949

are the bonafide students of this institute and the work has been carried out by them under the supervision of **Prof. MEENAL KAMALAKAR** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.


Prof. MEENAL KAMALAKAR

Project Guide


Dr. Supriya Kelkar

Head of Department Computer Engineering


Dr. M. D. Khambete
Principal

Cummins College of Engineering for Women ,Pune – 52

Place : Pune

Date :



CERTIFICATE

This is to certify that the project report entitles

PREVENTION OF DUPLICATION OF QR CODES OVER ANOTHER BLOCKCHAIN NETWORK

Submitted by

MRINMAYEE MALI	C22019221409 4409
SURABHI PARDESHI	C22019221421 4421
SUDESHNA PATIL	C22019221428 4428
RISHIKA JAIN	C22019221437 4437

are bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Varsha Pimprale and it is approved for the partial fulfilment of the requirement of

Cummins college of engineering for women, karvenagar, Pune
(an autonomous institute affiliated to Savitribai Phule Pune university.),
for the award of the degree of Bachelor of Technology (Computer Engineering).

Prof. Varsha Pimprale
Guide
Department of Computer Engineering

External
Examiner

Dr. Supriya Kelkar
Head
Department of Computer Engineering

Dr. Mrs. M. B. Khambete
Principal
Cummins College of Engineering for Women Pune – 52

Place: Pune

Date: 27TH May 2023



Maharshi Karve Stree Shikshan Samstha's
Cummins College of Engineering for Women, Pune
(An autonomous Institute affiliated to Savitribai Phule Pune University)

CERTIFICATE

This is to certify that the project report entitled

MUSIC RECOMMENDATION AND RECOGNITION FOR MUSIC APPLICATION

SUBMITTED BY

RUTUJA BHOSALE

C22019221317

JYOTI BOMBLE

C22019221318

HARSHADA GIRI

C22019221346

is a Bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Mahendra Deore** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Computer Engineering.

Dr. Mahendra Deore
Guide

Department of Computer Engineering

(Dr. Supriya Kelkar)
Head

Department of Computer Engineering

(Dr. M. B. Khambete)

Principal

Cummins College of Engineering for Women Pune – 52

Place :Pune

Date :



CERTIFICATE

This is to certify that the project report entitles
"FOOD SYSTEMS ECOMMERCE SYSTEM"

Submitted by

NIKITA KULKARNI	C22019221403	4403
GOURI LONKAR	C22019221408	4408
KINJEL MUTHA	C22019221416	4416
SAKSHI RAJPUT	C22019221432	4432

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Cummins College of Engineering for Women, Karvenagar, Pune
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for - Rank

Prof. Simantinee Kulkarni
Guide

Department of Computer Engineering

Dr. S. M. Kelkar
Head

Department of Computer Engineering

External Examiner: -

Dr. M.B. Khambete
Director,

Cummins College of Engineering for Women

Place: Pune

Date:



CERTIFICATE

This is to certify that the project report entitles
"AUTOMATIC ONLINE CUSTOMER RETENTION SYSTEM
USING ML TECHNIQUES"


Submitted by

FIZA SHAIKH	C22019881954
DURVA TARALE	C22020882909
SONIYA DUDHMANDE	C22019881954

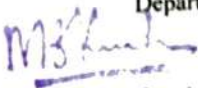
is a bonafide student of this institute and the work has been carried out by her under the supervision of **Hitendra Khairnar** and it is approved for the partial fulfillment of the requirement of Cummins college of engineering for women, karve nagar, pune (an autonomous institute affiliated to savitribai phule pune university.), for the award of the degree of Bachelor of Technology (Computer Engineering).


(Hitendra S. Khairnar)
Guide

Department of Computer Engineering


(Dr. Supriya Kelkar)
Head

Department of Computer Engineering


(Dr. M. B. Khambete)
Director,

Cummins College of Engineering for Women

Place : Pune

Date : 21/5/23



CERTIFICATE

This is to certify that the project report entitles

MEDURANCE : HEALTH INSURANCE COST PREDICTION USING MACHINE LEARNING

Submitted by

PRANAVI GAWADE	C22019881921 (4921)
NISARGA KHATKALE	C22019881929 (4929)
SHIVANI LALGE	C22019881931 (4931)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Sharayu Mirasdar and Prof.Dr.Madhuri Tasgaonkar** and it is approved for the partial fulfillment of the requirement of

cummins college of engineering for women, karvenagar, pune
(an autonomous institute affiliated to savitribai phule pune university.)

for the award of the degree of **Bachelor of Technology** (Computer Engineering).

(Prof. Sharayu Mirasdar)
Guide

Department of Computer Engineering

(Dr. S. M. Kelkar)
Head,

Department of Computer Engineering

(Prof. Dr. Madhuri Tasgaonkar)
Guide

Department of Computer Engineering

(Dr. M.B. Khambete)
Director,

cummins college of engineering for women

Place : Pune

Date : 27/05/2023



CERTIFICATE

This is to certify that the project report entitled
"SPOKEN LANGUAGE IDENTIFICATION USING AI TECHNIQUES"

Submitted by

STUDENT NAME :	EXAM NO :
1) SHIVANI JOSHI	4355
2) SHRUTI INGOLE	4349
3) SRUSHTI EKMODE	4336

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Nilofer Kittad** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.


(Prof. Nilofer Kittad)

Guide

Department of Computer Engineering


(Dr. Supriya Kelkar)

Head of


Department Computer Engineering


(Dr. M. B. Khambete)

Principal,

Cummins College of Engineering for Women Pune – 52

Place : Pune Date: 3/1/23


23/05/2023
Dr. D. T. Manoj



Application Square

ANPKEEENSAI...S...AM...T...

OFFICE ADD- 2ND Floor Sadashiv Motkari Complex , opp sagar sweet near jogging track , govind nagar, untwadi road, Nashik 422009 Phone - 7720086663/0 Email - info@applicatonsquare.com

CIN - U72900MH2015PTC261723

4th Nov 2022

To,

Sir/Madam Principle,

MKSSS CUMMINS COLLEGE OF ENGINEERING

FOR WOMEN PUNE.

Subject – Sponsorship letter for College Project.

Dear Sir/Madam Principle,

We are pleased to inform you about your Student selection in our organization for the **Academic collage Project sponsorship**. During the Project development stage will be helping them to understand the process and workflow of projects and technology awareness we will be providing them **Hybrid mobile app development (angular, PHP, Ionic)** Project which one customer requirement needs to be developed. Kindly return a copy of this letter with your full signature in token of your formal acceptance of the terms and conditions of employment with us. We take this opportunity to welcome you into our organization and look to a very fruitful association with you.

Student Name - 1) Ishita Bhadekar 2) Sakshi Bhimaji Hile 3) Preana Rangnath Kokane

Best of Luck!!!

Yours Sincerely,

Mr. Yogesh Aher

Director



Registered Office Address - 32, Amrut Nagar, Opp. Cytric, Jail Road Nashik Road Nashik 422101



CERTIFICATE

This is to certify that the project report entitled
“**SONG RECOMMENDATION SYSTEM BASED ON EMOTION**”

SUBMITTED BY

STUDENT NAME	ROLL NO.
ANUSHKA DESHMUKH	C22019881915
NEHA WAGHMARE	C22019881962
RUTUJA RASKAR	C22019881947
SACHITA MANE	C22020222307

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Pranjali Deshpande** and **Prof. Sulakshana Nagpurkar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.


(Prof. Pranjali Deshpande)


Prof. Sulakshana Nagpurkar)
Guide
Department of Computer Engineering



(Dr. Supriya Kelkar)
Head,
Department of Computer Engineering


(Dr. Madhuri Khambete)
Principle

Cummins College of Engineering for Women, Pune-52


29/05/23
Dr. D. P. Mane

Place: Pune
Date-29/05/23

CCOEW.DEPARTMENT OF COMPUTER ENGINEERING 2022-2023



CERTIFICATE

This is to certify that the project report entitled

“ The Traits Studio - Finding Personality Traits Based On Handwriting Analysis ”

Submitted by

RAJSHREE JUMNAKE	C22019221360	4356
DISHA AGRAWAL	C22019881902	4902
SAKSHI MUTKULE	C22019881937	4937

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Dr. Sandhya Arora** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Computer Engineering.

Prof. Dr. Sandhya Arora
Guide,
Department of Computer Engineering

Dr. Supriya M. Kelkar
Head,
Department of
Computer Engineering

Dr. M. B. Khambete
Principal,

Cummins College of Engineering for Women Pune – 52

Place: Pune

Date: April 05, 2023



CERTIFICATE

This is to certify that the project report entitles

VOICE AND GESTURE BASED NAVIGATION FOR SHOPPING

Submitted By

Kshitija Gadade

Exam No: C22019221340

Vaishnavi Gadmade

Exam No: C22019221341


Pooja Giri

Exam No: C22019221347

Sonali Ingle

Exam No: C22019221351

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Sandhya Arora & Prof. Priya Deokar** and it is approved for the partial fulfillment of the requirement of Cummins College Of Engineering For Women, Karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune University.), for the award of the degree of **Bachelor of Technology** (Computer Engineering).


**(Dr. Sandhya Arora & Prof.
Priya Deokar)**

Guide
Department of Computer Engineering


(Dr. S. M. Kelkar)

Head,
Department of Computer Engineering


(Dr. M. B. Khambete)

Director,
Cummins college of engineering for women

Place: Pune.

Date: 27/05/2023

CERTIFICATE

This is to certify that the project report entitled

“ANIMAL CARE”

Submitted by

SAKSHI ASHOK THAWAL
VIKUSUNUO NATSO
VIDHYA WAGHMARE

C22019221463
C22019221468
C22019221470

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Sushila Shelke & Prof. Ashwini Rajurkar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering.**



388
(Dr. Sushila Shelke)
(Prof. Aswini Rajurkar)

Guide
Department of Computer Engineering


(Dr. Supriya Kelkar)

Head,
Department of Computer Engineering


(Dr. M. B. Khambete)

Principal,
Cummins College of Engineering for Women Pune – 52

Place : Pune

Date : January 03,2023

CCEW, Department of Computer Engineering 2022 -23



CERTIFICATE

This is to certify that the project report entitled

Disaster Management System

Submitted by

Aarya Shinde
Rucha Joshi

is a bonafide student of this institute and the work has been carried out by her under the supervision of Dr. S. M. Kelkar and it is approved for the partial fulfilment of the requirement of

Cummins College of Engineering for Women, Karvenagar, Pune,
(An autonomous institute affiliated to Savitribai Phule Pune University.),
for the award of the degree of **Bachelor of Technology** (Computer Engineering)

(Dr. S. M. Kelkar)
Guide

Department of Computer Engineering

(Dr. M. B. Khambete)
Director,
CCOEW Pune – 52

(External)

(Dr. Supriya Kelkar)
Head,
Department of Computer Engineering

Place: Pune

Date: 27/05/2023



CERTIFICATE

This is to certify that the project report entitled
"IOT BASED SOLAR ENERGY GENERATION AND UTILIZATION
SYSTEM"

Submitted by

VAISHNAVI PHAD C22020222401

PREETI KUTWAL C22020222402

RACHANA REDDI C22020222403

ADITI SADAVARTE C22020222404

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Mrs. Nutan Deshmukh** and **Mrs. Ashwini Rajurkar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Technology** (Computer Engineering).

Mrs. Nutan Deshmukh External Examiner

Mrs. Ashwini Rajurkar

Guide

Department of Computer Engg.

(Dr. Supriya Kelkar)

Head,

Department of Computer Engg.

(Dr. M. B. Khambete)

Principal,

Cummins College of Engineering for Women Pune - 52

Place : Pune

Date : 27/05/23

CCOEW, Department Of Computer Engineering 2022-2023



CERTIFICATE

This is to certify that the project report entitled

“AI BASED E-COMMERCE WEB APPLICATION FOR FILORA”

Submitted by

MANSI CHAUDHARI Exam No: C22019221324
RITHIKA HEBBAR Exam No: C22019221438
ANSHIKA UPADHYAY Exam No: C22019221309

are bonafide student of this institute and the work has been carried out by them under the supervision of **Prof. Prakash Date** and **Prof. Ashwini Rajurkar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.


Prof. Prakash Date

Guide

Department of Computer Engineering



Dr. Supriya Kelkar

Head,

Prof. Ashwini Rajurkar

Guide

Department of Computer Engineering



Dr. M. B. Khambete

Principal,


All
extend
exam



CERTIFICATE

This is to certify that the project report entitled
“AI DRIVEN AUTISM SPECTRUM DISORDER DIAGNOSIS”

Submitted by,

ANAYA DANDEKAR	C22019881913
ESHA JUGADE	C22019881927
ESHA MUDGAL	C22019881936
NEHAL SONAWANE	C22019881960

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Anjali Naik** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (An autonomous institute affiliated to Savitribai Phule Pune University), for the award of the degree of Bachelor of Technology (Computer Engineering).

Dr. Anjali Naik

Guide,

Department of Computer Engineering

Dr. S. M. Kelkar

Head,

Department of Computer Engineering

Dr. M.B. Khambete

Director,

MKSSS's Cummins College of Engineering for Women, Pune

Place: Pune

Date: 27/05/2023